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PHOTOGRAPHIC INTERPRETATION REPORT

CHRONOLOGY OF
ARMS MACHINE AND STEEL PLANT 235
VOTKINSK, USSR

NOVEMBER 1967
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CHRONOLOGY OF ARMS MACHINE AND STEEL PLANT 235, VOTKINSK, USSR

INTRODUCTION

This report is a chronological study, based on [] photography, of Arms Machine and Steel Plant 235 (BE No [] which is located near the center of Votkinsk, USSR, at 57-02-40N 053-59-00E (Figure 1). Due to the small scale and poor interpretability of the early coverage of the plant a chronology of the road and rail development within it has not been attempted. All item numbers in this report refer to Table 1 and Figure 2.

Plant 235 has been reported as producing heavy-caliber guns. 1/ Recent identification of possible SCUD missile crates indicates that this plant may be involved in the production of missiles/missile components. The main plant is road and rail served, and it is enclosed by a continuous wall (Figures 2 and 3). The outlying areas of the plant are separately secured. No special security measures are evident.

A road- and rail-served walled storage area (Area 1, Figure 2) containing considerable open storage and several large warehouses is located near the south end of the main walled area of the plant. Outside one of the warehouses (item 21) 10 possible SCUD missile crates are evident which measure approximately 35 by 5 feet as compared to those previously identified within a rail-served walled area (item 69) of the plant and which measure approximately [] 5 feet. The average measurements of the crates in the 2 areas indicate a small difference in length; however, these measurements are accurate only to plus-or-minus [] in length and [] foot in width and are probably of the same-size objects. The SCUD B missile measures [] feet in length (without warhead) and is [] feet in diameter.

Three smaller walled areas (Areas 2, 3, and 4) are located southeast of the main plant area. These areas are rail connected to the main area and apparently are functionally related to the plant. A petroleum storage area which

is not necessarily part of the plant is also located outside the main walled area. Steamlines run from the plant to this area.

The plant roof cover has increased about 10 percent since it was first observed in late 1961. Large fabrication/assembly buildings (items 68, 70, 72, 76, and 98) constitute the principal construction since that time. As of the date of this report, the total roof cover of the plant is approximately [] square feet.

HIGHLIGHTS OF CHRONOLOGY

1961

The plant was in existence prior to the earliest [] KH-4 coverage of the area. At that time

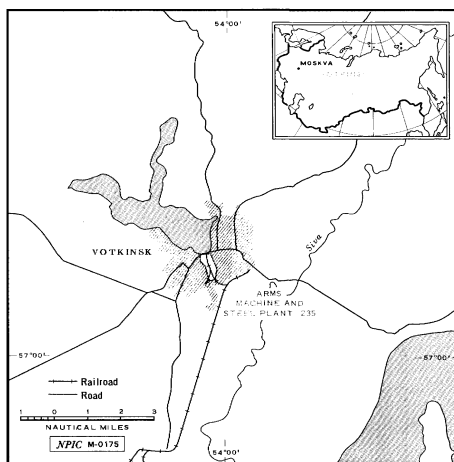


FIGURE 1. LOCATION MAP.

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the plant appeared to be complete and operational, and no new construction activity was evident. Most of the buildings in Area 1 were present, Areas 2 and 4 appeared complete, and Area 3 was nearly complete.

1962

One large fabrication/assembly building (item 72) had been added.

1963

Coverage of good interpretability of [] revealed that 1 large and 1 medium-sized fabrication/assembly building (items 70 and 98) had been added. Construction had been started on another large fabrication/assembly building (item 76). Seventeen small buildings were observed which had not been discernible on previous coverage.

1964-1965

No significant changes or additions were observed.

1966

Item 76 (the fabrication/assembly building previously under construction) and 3 small buildings had been completed.

1967

An additional bay on item 68 (a fabrication/assembly building) had been completed, and an additional bay on a shop-type building (item 97) was apparently under construction.

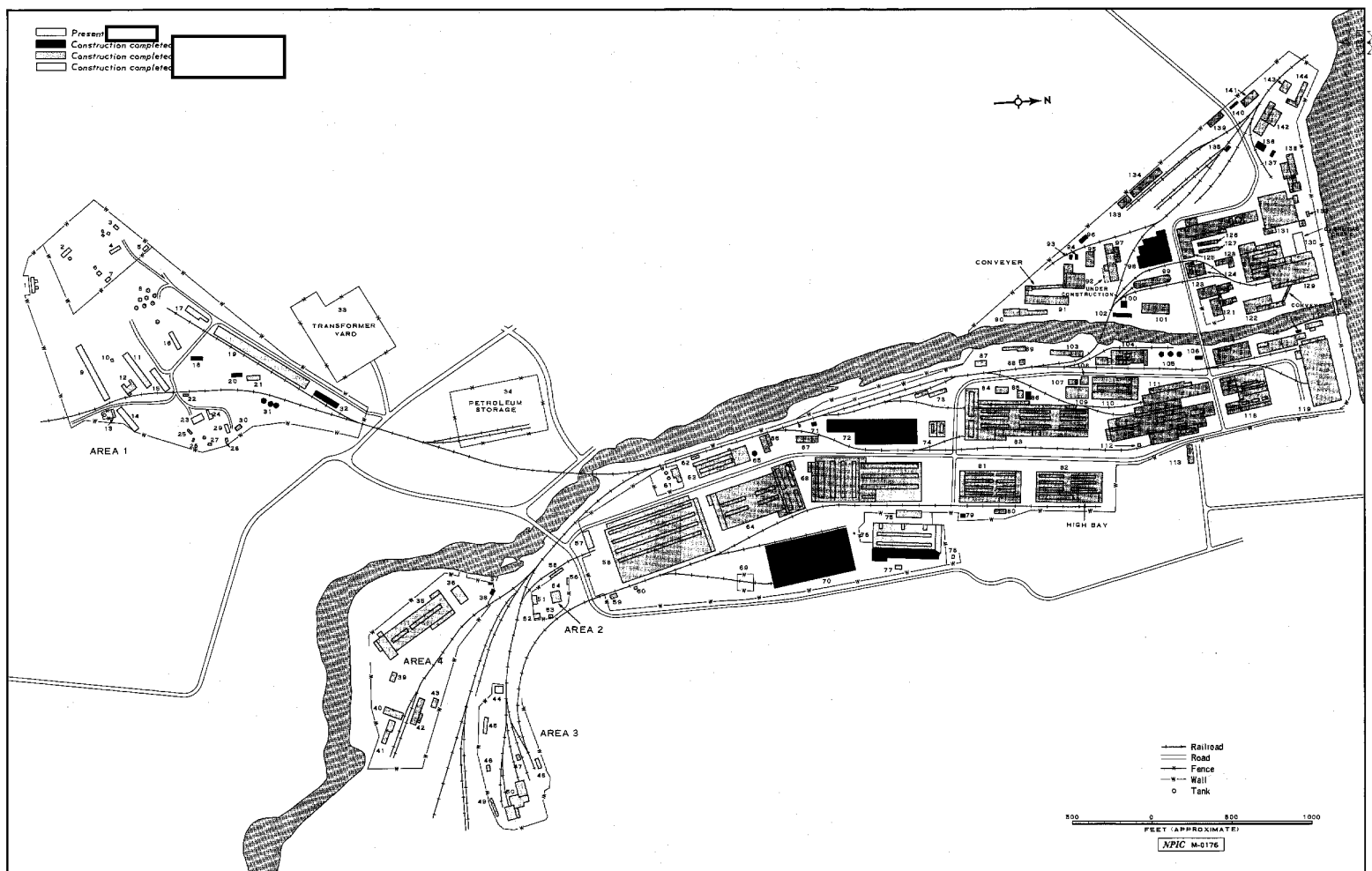


FIGURE 2. LAYOUT OF ARMS MACHINE AND STEEL PLANT 235, VOTKINSK, USSR.

Table 1. Data on Arms Machine and Steel Plant 235
(Item numbers are keyed to Figure 2)

Item No	Function/Description	Dimensions (ft) L W H	Roof Cover (sq ft)	Date First Observed & Apparently Complete* (unless otherwise noted)	Comments	Item No	Function/Description	Dimensions (ft) L W H	Roof Cover (sq ft)	Date First Observed & Apparently Complete* (unless otherwise noted)	Comments
1	U/I bldg				Items 1-32 comprise Area 1 on Fig 2.	73	Fabrication/assembly bldg				
2	Warehouse				A small bldg is a possible	74	Support bldg				
3	Support bldg				Three small bldgs	75	Shop/fabrication bldg				
4	Warehouse					76	Prob admin/engineering bldg				
5	Support bldg					77	Fabrication/assembly bldg				
6	Support bldg					78	Support bldg				
7	Support bldg					79	Guest shack				
8	Tanks				Seven tanks are discernible.	80	Support bldg				
9	Warehouse					81	Fabrication/assembly bldg				
10	Support bldg					82	Fabrication/assembly bldg				
11	Warehouse					83	Powr rolling mill				
12	Warehouse				An attached fenced area contains tankage.	84	Support bldg				
13	Support bldg with tank storage					85	Support bldg				
14	Warehouse					86	Support bldg				
15	Warehouse					87	Support bldg				
16	Warehouse					88	Support bldg				
17	Warehouse					89	Support bldg				
18	Warehouse					90	Support bldg				
19	Warehouse				Area around bldg contains considerable open storage.	91	Warehouse				
20	Warehouse					92	Prob steamplant				
21	Warehouse					93	Support bldg				
22	Support bldg					94	Support bldg				
23	Warehouse					95	U/I bldg				
24	Warehouse					96	Support bldg				
25	Support bldg					97	Shop				
26	Support bldg					98	Fabrication/assembly bldg				
27	Support bldg					99	U/I structure				
28	Support bldg					100	Support bldg				
29	Support bldg					101	Possible forge				
30	Support bldg					102	Support bldg				
31	U/I bldg					103	Support bldg				
32	Tanks					104	Powr heat treatment bldg				
33	Warehouse					105	Powr tanks				
34	Transformer yard					106	Support bldg				
35	Petroleum storage area					107	Support bldg				
36	Prob receiving/shipping facility					108	Support bldg				
37	Guard shack					109	Support bldg				
38	Guard shack					110	Fabrication/assembly bldg				
39	Support bldg					111	Fabrication/assembly bldg				
40	Warehouse					112	Support bldg				
41	Warehouse					113	Gatehouse				
42	Warehouse					114	U/I bldg				
43	Support bldg					115	U/I bldg				
44	Prob admin bldg/gatehouse					116	Support bldg				
45	Warehouse					117	U/I bldg				
46	Support bldg					118	Fabrication/assembly bldg				
47	Support bldg					119	Fabrication/assembly bldg				
48	Support bldg					120	Pumphouse				
49	Support bldg					121	U/I bldg				
50	Warehouse					122	Powr fabrication bldg				
51	Support bldg					123	U/I bldg				
52	Support bldg					124	Prob shop				
53	Support bldg					125	Powr foundry				
54	Support bldg					126	Prob support bldg				
55	Warehouse					127	Prob support bldg				
56	Support bldg					128	Prob admin bldg				
57	Warehouse					129	Prob fabrication bldg				
58	Prob assembly bldg					130	Overhead crane				
59	Support bldg					131	Powr foundry				
60	Support bldg					132	Support bldg				
61	Powr auxiliary thermal powerplant					133	Warehouse				
62	Support bldg					134	Warehouse				
63	Fabrication/assembly bldg					135	Support bldg				
64	Prob assembly bldg					136	Support bldg				
65	Tank					137	Support bldg				
66	U/I bldg					138	Powr foundry				
67	U/I bldg					139	Gatehouse				
68	Fabrication/assembly bldg					140	Support bldg				
69	Walled storage area					141	Prob storage bldg				
70	Fabrication/assembly bldg					142	Prob storage bldg				
71	Support bldg					143	Prob storage bldg				
						144	Prob storage bldg				

*The date first observed is the first date the item was recognizable as a structure. The date apparently complete is the first date the structure outwardly appeared complete. This date may not be related to the date the structure was operational.
**Approximate.

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REFERENCES

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MAPS OR CHARTS

ACIC series, scale 1:200,000

DOCUMENT

1. CIA. V 6322, Firm No 7001849, data extracted from Air Intelligence Study AIS 3-34 AF-730515, *Arms Machinery and Steel Plant No 235, Volkinsk, USSR*, Jan 56 (SECRET)

REQUIREMENT

CIA. C-DI5-82,973

NPIC PROJECT

11212/66 (partial answer)

*Because of the number of missions covering Plant 235, only selected photography is listed.

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